

HP NH3 Booster Pump

Solutions for the zero-carbon transition

SVANEHØJ
An ITT Company

The NH3 Fuel Pump sets new standards for high-pressure applications with enhanced safety and reliability.

Svanehoj now introduces a new addition to our product portfolio - the NH3 Fuel Pump. With this launch Svanehoj offers a unique ability to provide both Low-Pressure (LP) and High-Pressure (HP) fuel pumps. Svanehoj is the only supplier offering this dual capability, leveraging the same trusted pump technology for both pressure ranges. This consistency across LP and HP pumps not only simplifies the installation process but also reduces the complexity and cost of maintenance, as customers benefit from a unified proven approach.

Specifications

The NH3 Fuel Pump represents the latest advancement in ammonia fuel pump technology, engineered to handle high-pressure applications with the highest standards of safety and reliability. Utilizing Svanehoj's well-proven pump technology, this pump features a simple yet robust design, ideal for managing the complexities of ammonia as a fuel. Its hermetically sealed construction eliminates the need for mechanical shaft seals, thereby eliminating the risk of leaks and enhancing safety in all operational environments.



Operating parameters

- **Model:** HP NH3 Fuel Pump (10-stages)
- **Fuel:** Ammonia (NH3)
- **Type:** Centrifugal
- **Inlet pressure:** 20 barg
- **Outlet pressure:** 85 barg
- **Head:** 1200mlc (w. 10 stages, $\Delta p = 65\text{bar}$ @ SG = 0.55)
- **Capacity e.g.:** 30m³/hr @ 5840 rpm
37m³/hr @ 6000rpm (max)
- **Control Method:** VFD
- **MTBR:** 20.000 hrs.
- **Motor:** Standard flameproof (Ex de) motor
- **Very small footprint (height, width, length):**
S2100mm, 780mm, 1420mm

Advantages and benefits of the NH3 Fuel Pump

- **Simple and Reliable Design:**
The NH3 Fuel Pump is grounded in well-proven pump technology, delivering a simple yet reliable design based on Svanehoj's extensive experience with ammonia.
- **Unmatched Safety with Hermetic Sealing:**
Safety is critical when working with complex fluids like ammonia. The NH3 Fuel Pump's hermetically sealed design eliminates mechanical shaft seals, removing the risk of leaks and ensuring top-tier safety.
- **Extended Operational Life and Reduced Maintenance:**
With a Mean Time Between Repairs (MTBR) of 20,000 hours, the NH3 Fuel Pump is designed for heavy-duty use, significantly reducing maintenance needs and ensuring long-term operational reliability.
- **Compact and Efficient Installation:**
The NH3 Fuel Pump's compact footprint allows for easy installation, even in space-constrained environments, making it an ideal choice for modern applications where space and efficiency are paramount.
- **Unique Dual Capability – LP and HP Pumps:**
Svanehoj is the only provider offering both Low-Pressure (LP) and High-Pressure (HP) fuel pumps using the same advanced pump technology. This ensures consistency and reliability across different pressure requirements, simplifying both installation and maintenance for customers.

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